

U.S. EPA TECHNICAL SUPPORT PROJECT SEMI-ANNUAL MEETING AGENDA

February 10-13, 1998
Salt Lake City, UT



U.S. EPA TECHNICAL SUPPORT PROJECT CO-CHAIRS

Engineering Forum:

Steve Kinser, Region 7 • Bob Stamnes, Region 10 • Frank Vavra, Region 3

Ground-Water Forum:

Herb Levine, Region 9 • Luanne Vanderpool, Region 5

Federal Facilities Forum:

Meghan Cassidy, Region 1 • Paul Leonard, Region 3
Scott Marquess, Region 7

TUESDAY, FEBRUARY 10, 1998

8:30 -11:30 am

FORUM BUSINESS SESSIONS

Engineering Forum—Eagle's Gate

8:30-9:30

Engineering Forum Internet Site
Discussion (*Forum Discussion*)

9:30-10:00

Discussion of Proposed Sulfide Cap
Issue Paper (*David Kargbo, R3*)

10:00-10:45

Corps of Engineers Process
Engineering Training Logistics and
Content - A Scoping Session (*Robert
B. Saari, Missouri River Division,
Center of Expertise*)

10:45-11:30

How Are We Doing and What Can We
Be Doing Better (*Open Discussion*)

Federal Facilities Forum—Aspen

8:30 - 9:00

Opening/Introductions

9:00 - 9:30

EPA's Perspective on INEEL (*Wayne
Pierre, EPA RPM*)

9:30 -10:00

Discussion on Forum Issue Papers

10:00 - 10:30

Groundwater Cleanup to MCLs at
Federal Facilities (*Forum Discussion*)

10:30 - 11:00

Field Sampling and Selecting On-Site
Analytical Methods for Explosives in Water
(*Alan B. Crockett, INEEL, and Harry
Craig, Region 10*)

11:00 - 11:30

Update on Range Rule, Range Rule
Risk Assessment, and UXO Subgroup
(*Doug Bell, FFRRO, and Harry Craig,
Region 10*)

Ground Water Forum—Heritage

8:30-9:00

Review 1997 Action Items, Propose
Business Agenda, Set Goals

9:00-10:00

Forum Protocols and Procedures:
Consensus Building, Decision Making,
Record Keeping

10:00-10:20

Theme for next TSP meeting

10:20-10:40

Briefing on Ground Water Protection
Council (*Vince Malott, Region 6*)

10:40-11:00

ORD Relations

11:00-11:30

Issue Papers

11:30-12:45 PM

LUNCH

12:45-5:30 pm

PLENARY SESSION—Eagle's Gate

12:45-2:15

Welcome Address

*Max Dodson, Region 8, Warren Bergholz, INEEL, Renee Wynn, FFRRO, Gareth Pearson, NERL, and
Larry Reed, OERR*

2:15-2:30

BREAK

2:30-3:00

Permeable Reactive Barriers (*Bob Puls, NRMRL-Ada*)

3:00-3:30

New Standard Sampling Procedures for Sampling Soils Contaminated with Volatile Organic Compounds
(*Alan B. Crockett, INEEL*)

3:30-4:00

In Situ Groundwater Sampler for Volatile Organic Compounds (*Scott Barrie, INEEL*)

4:00-4:30

Dynamic Underground Stripping (*Roger Aines, Lawrence Livermore Natl. Laboratory*)

4:30-5:00

How Heat Can Enhance *In Situ* Soil and Aquifer Remediation: An Overview and Guidance on Choosing the
Appropriate Techniques (*Eva Davis, NRMRL-Ada*)

WEDNESDAY, FEBRUARY 11, 1998

8:30 -11:45 am

TECHNICAL SESSION 1—Aspen

ENGINEERING FORUM ROUNDTABLE DISCUSSION ON *IN SITU* THERMAL TREATMENT

*Moderated by Chet Janowski, Region 1, and Paul Leonard,
Region 3*

Dynamic Underground Stripping

*Kent Udell, Berkeley Environmental Restoration Center
Robin Newmark, Lawrence Livermore Natl. Laboratory
Roger Aines, Lawrence Livermore Natl. Laboratory
Eva Davis, Robert S. Kerr Environmental Research Center*

Radio Frequency Heating

Raymond Kasevich, KAI Technologies, Inc.

Visalia Poleyard

Craig Eaker, Southern Cal Edison

Thermal Blanket/Thermal Wells

John Reen, Tera Therm

8:30 - 11:00 am

TECHNICAL SESSION 2—Eagle's Gate

8:30-9:00

A Comprehensive Simulation Study of VOC Transport in the Vadose Zone and Aquifer at the Subsurface Disposal Area, INEEL: Results and Lessons Learned from the Mother of All Modeling Studies (*Jeff Sondrup, INEEL*)

9:00-9:45

Evaluating Natural Attenuation and Enhanced Bioremediation of Trichloroethene in Fractured Basalt (*Kent S. Sorenson, Jr., INEEL*)

9:45-10:00 BREAK

10:00-10:30

Analysis of Intrinsic Bioremediation of Contaminated Aquifers (*Allan Wylie, INEEL*)

10:30-11:00

Pros and Cons of Use of Recirculating Wells to Strip VOCs and SVOCs from Ground Water (*Robert Hinchee, Battelle, and Rick Johnson*)

11:00 - 11:45 am

FEDERAL FACILITIES AND GROUND WATER FORUM BUSINESS SESSION

(Note: Forum Members and EPA Only Please)

11:00-11:45

Joint Federal Facilities Forum/Ground Water Forum Business Session: AFCEE Natural Attenuation Protocol Review

11:45-1:00 pm LUNCH

1:00-4:00

TECHNICAL SESSION 1—Eagle’s Gate

- 1:00-1:30 Innovative Environmental Remediation Technologies (*Kevin M. Kostelnik, INEEL*)
- 1:30-2:00 Development of Biofilters for the Removal of Chlorinated VOCs from Off-Gas Streams Created During Environmental Remediation (*Brady D. Lee, INEEL*)
- 2:00-2:45 SVE systems—When to Shut Them Off: A Discussion with the TIO SVE workgroup (*Jim Cummings, TIO, and Dominic DiGiulio, NRMRL-Ada*)
- 2:45-3:15 Cap guidance developed by Region 1 (*Yoon-Jean Choi, Region 1*)
- 3:15-3:45 BREAK**

1:00-4:00

TECHNICAL SESSION 2—Aspen

- 1:00-1:30 Surfactant Enhanced Aquifer Remediation for DNAPLs at Neutral Buoyancy (*G. Michael Shook, INEEL*)
- 1:30-2:00 Dye Tracer Study to Determine the Potential for Contaminant Migration in Ground Water -and- Source Determination for PAH Contamination (*Bill Brumbley, NERL-Las Vegas*)
- 2:00-2:45 Consortium for Site Characterization Technology (*Eric Koglin, NERL-Las Vegas*)
- 2:45-3:30 The Partitioning Interwell Tracer Test at a Chemical Waste Landfill (*Jim Studer, Los Alamos/Sandia*)
- 3:30-3:45 BREAK**

3:45-5:15

TECHNICAL SESSION 1—Eagle’s Gate

- 3:45-4:15 Visalia Pole Yard Remediation (*In Situ* DNAPL Destruction) (*Craig Eaker, Southern Cal-Edison*)
- 4:15-4:45 Ultraviolet VOC Destruction Technology (*Ted Weigold, Process Technologies, Inc.*)
- 4:45-5:15 *In Situ* Flushing/Surfactants (*Lynn Wood, NRMRL-Ada*)

3:45-5:15

TECHNICAL SESSION 2—Aspen

- 3:45-4:15 Advantages of Composite Sampling in Environmental Sampling (*Alan B. Crockett, INEEL*)
- 4:15-4:45 On-site Analysis of Soils Contaminated with Explosives Using Ion Mobility Spectrometry (*Alan B. Crockett, INEEL*)
- 4:45-5:15 An INEEL-Wide Ecological Risk Assessment Approach (*R. VanHorn, INEEL*)

3:45-5:15

AFCEE NATURAL ATTENUATION PROTOCOL WORKGROUP MEETING—Heritage

(Note: Workgroup Members Only Please)

7:00-10:00 pm

AFCEE NATURAL ATTENUATION PROTOCOL WORKGROUP MEETING—Aspen

(Note: Workgroup Members Only Please)

THURSDAY, FEBRUARY 12, 1998

8:15-9:00

TECHNICAL SESSION 1—Eagle's Gate

Fry Canyon Permeable Reaction Wall Case Study
(*Randy Breeden, Region 8*)

8:15-8:45

TECHNICAL SESSION 2—Aspen

Biodegradation of Solid Explosives in Contaminated Soil (*Corey W. Radtke, INEEL*)

FORUM BUSINESS SESSIONS

9:00-11:30

Engineering Forum—Eagle's Gate

9:00-9:30

Discuss National Workshop on
Groundwater Remediation at Petroleum
Type Sites (*An information Exchange
with Randy Breeden, Region 8*)

9:30-10:30

Brainstorming Session on Post
Construction Cover System
Inspection/Evaluation Issue Paper
(*Discussion to be Led by Neil
Thompson with Full Forum
Participation*)

10:30-11:15

Brainstorming on *In Situ* Thermal
Enhancement Issue Paper (*Discussion
to be Led by Bob Stamnes with Full
Forum Participation*)

11:15-11:30

Discussion of New Workgroups,
Documents, Ideas, and Events by
Forum Members

11:30-12:30

LUNCH

8:45-11:30

Federal Facilities Forum—Aspen

8:45-11:00

Institutional Controls Panel Discussion
(*Note: Forum Members and EPA Only
Please*)

11:00-11:30

DOE's Accelerated Site Technology
Deployment Initiative (*Jim Wade, U.S.
DOE*)

9:00-11:30

Ground Water Forum—Heritage

9:00-9:15

MTBE Briefing (*Matthew Hagemann,
Region 9*)

9:15-9:45

USGS Sampling Symposium (*Doug
Yeskis, Region 5, and Bernie Zavala,
Region 10*)

9:45-11:00

Sampling Guidelines Paper (*Doug
Yeskis, Region 5, and Bernie Zavala,
Region 10*)

11:00-11:15

ORD Natural Attenuation Training
Class

11:15-11:30

Briefing on National Refinery Site
Workshop (*Randy Breeden, Region 8*)

12:30-1:00

JOINT FORUM SESSION—Eagle's Gate

Overview and Update on Natural Attenuation Activities (*John Wilson, NRMRL-Ada, and Fran Kremer, NRMRL-Cincinnati*)

1:00-3:15

**TECHNICAL SESSION 1—
Eagle's Gate**

1:00-1:30

MTBE Remediation (*Matthew Hagemann, Region 9*)

1:30-2:15

In Situ Stabilization of the INEEL Acid Pit (*Guy G. Loomis, INEEL*)

2:15-2:30

BREAK

2:30-3:15

Development and Use of Environmental Geophysical Technologies at INEEL (*M.C. Pfeifer, INEEL*)

1:00-5:00

TECHNICAL SESSION 2—Aspen

1:00-2:45

ORD Beta Test of the AFCEE Protocol (*John Wilson, NRMRL-Ada, Fran Kremer, NRMRL-Cincinnati, and Mark Ferrey, Minnesota Pollution Control Agency*)

2:45-3:00

BREAK

3:00-3:30

Cost Performance Data from Groundwater Pump and Treat Actions (*Linda Fiedler, TIO*)

3:30-4:00

Investigation into the Influence of Air Rotary Drilling on VOC Concentrations in Sediment and Soil Gas Using the Simulprobe Sampler Tool (*Jim Studer, Los Alamos/Sandia*)

4:00-4:30

Detection of Perchlorates in Water Supplies (*Joe Donnelly, NERL-Las Vegas*)

4:30-5:00

Lead Contaminated Soil Remediation Using Potable XRF Analysis and Global Positioning Surveys (*Skip Wrightson, Los Alamos/Sandia*)

1:30-3:15

**UXO SUBGROUP
MEETING—Heritage**

1:30-3:30

UXO Subgroup Meeting
(*Note: Subgroup Members Only Please*)

3:15-3:30

BREAK

3:30-5:30

TECHNICAL SESSION 3

3:30-4:15

Isolation of Anaerobic Bacteria from an Aseptically Cored Well (TAN 34) in the Trichloroethylene Plume at the Test Area Site of INEEL (*Ron Crawford, INEEL*)

4:15-5:00

Soil and Groundwater Modeling of Creosote Components and PCP at the Texarkana Wood Preserving Company Superfund Site (*Ron Arnett, INEEL*)

5:00-5:30

Pump-and-Treat Optimization
(*Kathy Yager, TIO*)

FRIDAY, FEBRUARY 13, 1998

8:30-10:00

FORUM BUSINESS SESSIONS

WRAP-UP AND ASSIGNMENT OF ACTION ITEMS

Engineering Forum—Eagle's Gate

Wrap-Up and Overview of Action
Items

Federal Facilities Forum—Aspen

Wrap-Up and Overview of Action
Items

Topics to be addressed

- Co-Chair Nominations
- Federal Facilities Leadership
Council Meeting Update/Issues
- Federal Facilities Database
- UXO Subgroup Wrap-Up
- Lead Regulator at Rocky Flats
Status/Update
- Action Items

Ground Water Forum—Heritage

8:30-9:00
AFCEE Protocol Workgroup Report
(*Curt Black, Region 10*)

9:00-10:00
Summary/Action Items

10:00-11:30 Co-Chair Meeting with Rich Steimle and Debriefing

11:30 Adjourn